

**Amendments to the Claims:**

This listing of claims will replace all prior versions and listings of claims in the application:

**Listing of Claims:**

1. (Currently Amended) A method of forwarding a data packet ~~to a connection-oriented network~~, said method comprising:
  - receiving the data packet, wherein the data packet includes a unicast destination address corresponding to a mobile node;
  - generating a link-layer frame, wherein the link-layer frame includes a broadcast address and the unicast destination address; and
  - sending, via the broadcast address, the link-layer frame broadcasting said data packet from a routing device to a plurality of access devices, wherein at least one access device of the plurality of access devices supports the mobile node. of a connection-oriented network using a broadcast address;
  - checking at each of said plurality of access devices whether a multicast destination address of said data packet is supported; and
  - forwarding said data packet from a supporting one of said plurality of access devices to said multicast destination address.
2. (Previously Presented) The method according to claim 1, wherein said broadcast address is predefined.

3. (Currently Amended) The method according to claim 1, ~~wherein said connection-oriented network is a cellular network.~~ further comprising:

determining that the at least one access device supports the mobile node; and  
forwarding the link-layer frame to the mobile node.

4. (Previously Presented) The method according to claim 1, wherein said data packet is an IP data packet.

5. (Previously Presented) The method according to claim 1, wherein said broadcast address is a link-layer address.

6. (Currently Amended) The method according to claim 1, wherein said plurality of access devices store mappings between supported destination addresses and their link-layer addresses corresponding to the supported destination addresses.

7. (Currently Amended) The method according to claim 1, wherein said unicast destination address is a network layer address.

8. (Currently Amended) The method according to claim 1, wherein the data packet further comprises a payload, and further wherein the payload is included in the link-layer frame.  
~~said destination address is an address of a mobile node.~~

9. (Currently Amended) The method according to claim 1, further comprising encapsulating said data packet into ~~[[a]]~~ the link-layer frame comprising said broadcast address.

10. (Currently Amended) The method according to claim 1, wherein said link-layer frame is discarded by an access device from the plurality of access devices ~~discarded or drop~~

~~said data packet if the access device does not support the mobile node, they do not support said multicast destination address.~~

11. (Currently Amended) An access device for forwarding a data packet ~~in a connection-oriented network~~, said access device comprising:

a receiving unit configured to receive a link-layer frame which is addressed to a multicast broadcast address, wherein the link-layer frame includes the multicast broadcast address and a unicast destination address of a mobile node;

~~a detecting unit configured to detect a predetermined broadcast address added to said data packet;~~

a checking unit configured to check whether the mobile node corresponding to the unicast destination address ~~a multicast destination address of said multicast data packet~~ is supported by said access device; and

a forwarding unit configured to forward said ~~data packet~~ link-layer frame to the unicast destination address if the mobile node is supported by said access device, ~~to said multicast destination address in response to said checking means.~~

12. (Currently Amended) The access device according to claim 11, further comprising a dropping unit configured to drop said link-layer frame ~~data packet~~ if said checking unit determines that said mobile node destination address is not supported.

13. (Currently Amended) The access device according to claim 11, wherein said ~~multicast~~ unicast destination address is a network-layer address and said multicast broadcast address is a link-layer address.

14. (Currently Amended) The access device according to claim 11, wherein said access device comprises a cellular access point.

15. (Currently Amended) A routing device for forwarding a data packet ~~to a connection-oriented network~~, said routing device comprising:

a receiving unit configured to receive the data packet, wherein the data packet includes a unicast destination address corresponding to a mobile node;

a checking unit ~~means for checking~~ configured to determine whether a link-layer address corresponding to the mobile node is available; said data packet requires a multicast transmission; and

an addressing unit configured to generate a link-layer frame if the link-layer address corresponding to the mobile node is not available, wherein the link-layer frame includes the unicast destination address and a broadcast address; means for adding a predetermined broadcast address to said data packet if said checking means determines that said data packet requires a multicast transmission; and

a forwarding unit configured to forward, via the broadcast address, the link-layer frame ~~said data packet from said routing device~~ to a plurality of access devices, wherein at least one access device of the plurality of access devices supports the mobile node. ~~of a connection-oriented network using said broadcast address.~~

16. (Cancelled)